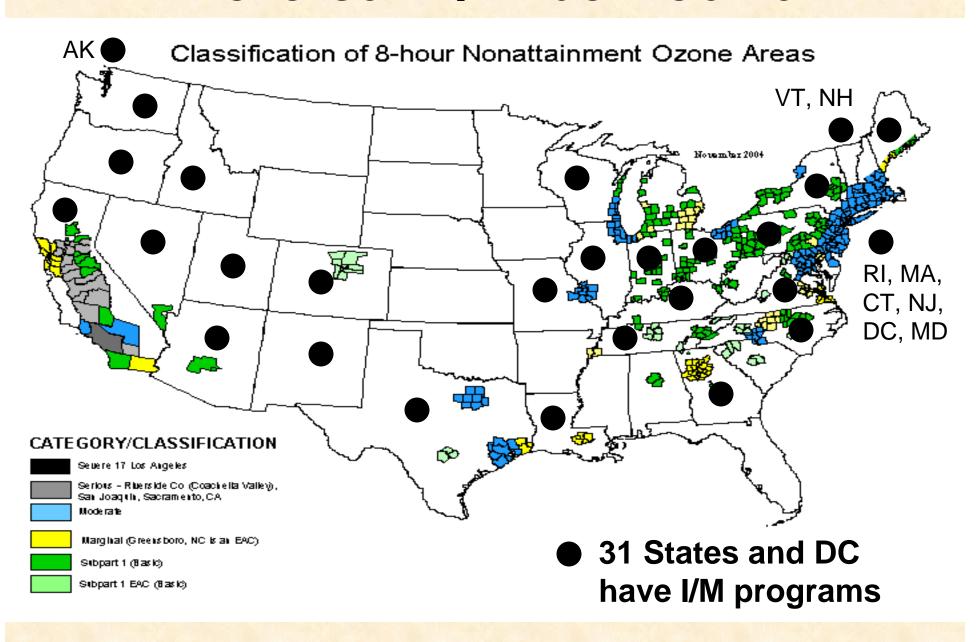
# EPA R7's Perspective on the St. Louis I/M Program

St. Louis I/M Summit

7/22/2005

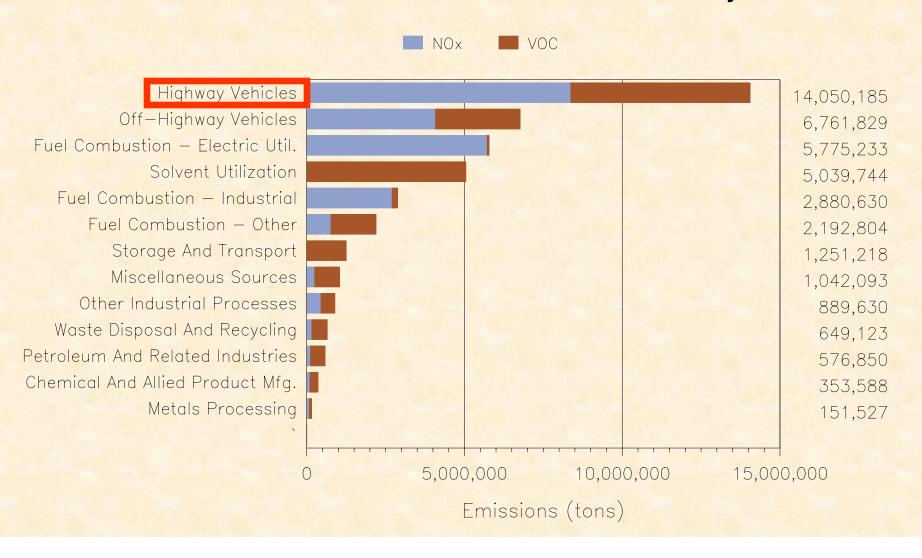
Josh Tapp, Air Planning & Development Branch Chief

#### Where can I/M be Found?



### Why is I/M Important?

#### 1999 National NOx & VOC Emissions by Source



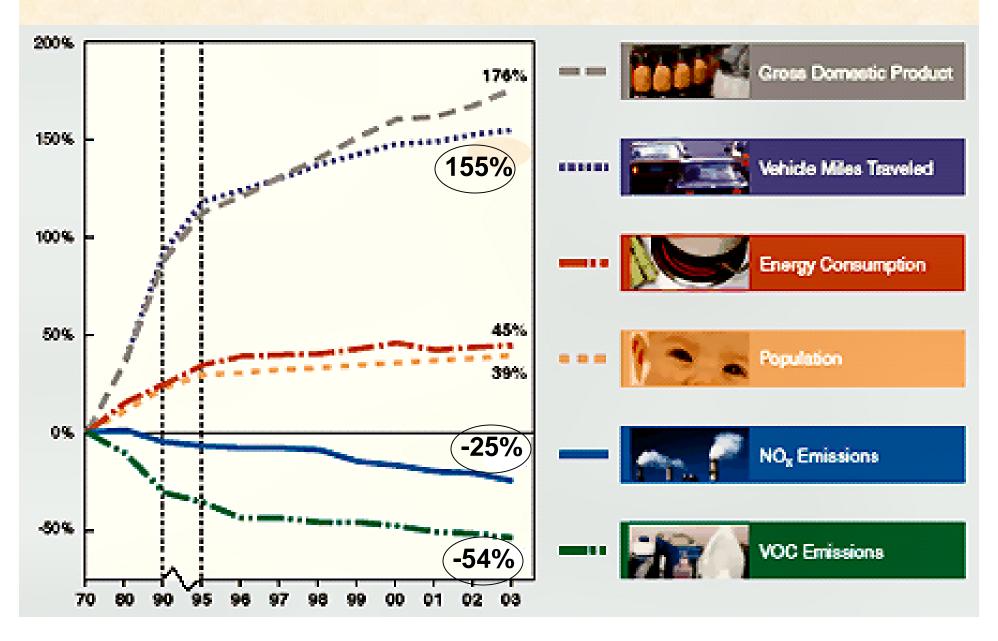
# Why is I/M Important?

i.e.

% of Total Compound Tons **National Emissions** 1/3-Butadiene 23,500 42% Acetaldehyde 29% 28,700 Acrolein 5.000 16% 0.25 **Arsenic Compounds** 0.06% Benzene 168,200 48% **Chromium Compounds** 1.2% 14 Dioxins/Furans NA NA 80,800 47% Ethylbenzene 24% **Formaldehyde** 83.000 0.8% **Lead Compounds** 19 **Manganese Compounds** 5.8 0.2% **Mercury Compounds** 0.2 0.1% MTBE 65,100 47% n-Hexane 63,600 26% **Naphthalene** NA NA **Nickel Compounds** 10.7 0.9% POM (as sum of 7 PAH) 42 4% Styrene 16,300 33% Toluene 549,900 51% **Xylene** 311,000 43% **Diesel Particulate Matter** 182,000 34%

21 On-Road
Mobile Source
Air Toxics
Emissions
from 1996

### Why is I/M Important?



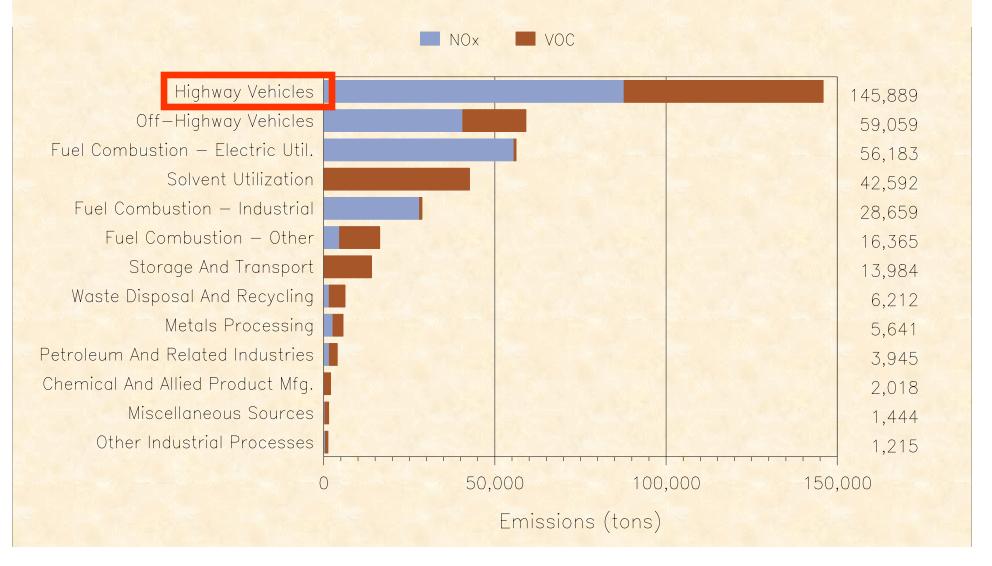
### Why is I/M Important for STL?

**Vehicle Miles Traveled (VMT)** 



### Why is I/M Important for STL?

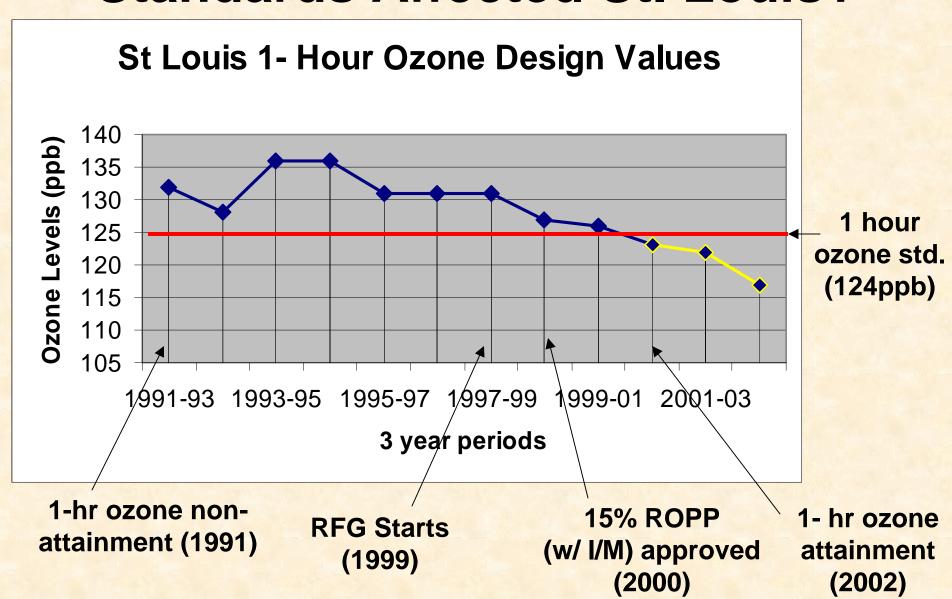
#### 1999 Criteria Air Pollutants Emissions for STL MSA



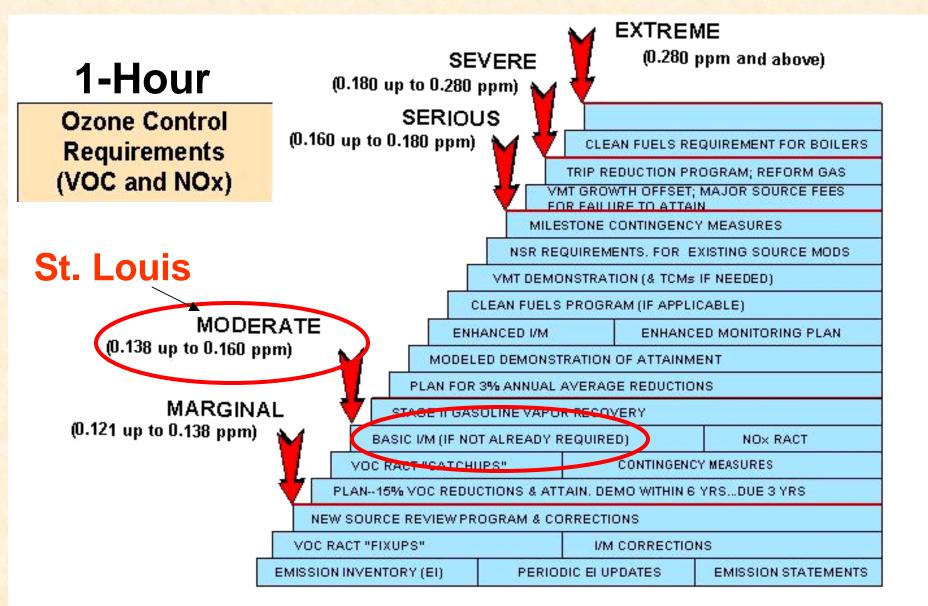
### What has I/M Accomplished in St. Louis?

- Program began in 2000
- 2,680,000 vehicle tests conducted
- 11.7% failure rate
- 61% passed retests
- Results in more than 190,000 vehicles repaired
- When a vehicle is repaired its emissions can be reduced by up to 80%
- Contributed 30% of the Rate of Progress Plan emissions reductions

## How have the Air Quality & Fuel Standards Affected St. Louis?



#### Why is I/M Required in St. Louis?



NOTE: All the above classifications are also required to do NSR and conformity

# Does the Change in Standards Affect I/M Requirements?

- St. Louis is "moderate non-attainment status" for 8-hr ozone standard
- Areas subject to Subpart 2 must continue to meet "applicable requirements"
  - Revisions may be made
  - Backsliding is not allowed i.e., mandatory measures cannot be removed from the SIP

### What is Backsliding?

- 110 (I) of the CAA
  - The Administrator shall not approve a revision of a plan if the revision would interfere with any applicable requirement concerning attainment and reasonable further progress (as defined in section 171), or any other applicable requirement of this Act.

## What Alternatives have Other Areas Considered?

- Loss of emission credits from I/M program alterations require make-up credits to be found elsewhere
- Examples:
  - Louisville (BASIC NA) has proposed to substitute I/M with stationary source reductions
  - Hamilton Co., KY ("Northern KY") (BASIC NA) has proposed to substitute I/M with area source reductions
  - Cincinnati, OH (BASIC NA) removing I/M—not yet determined how will demonstrate noninterference for the 8-hour and PM<sub>2.5</sub> NAAQS

# What are the Repercussions of Removing the I/M Program?

- I/M required in moderate NA areas
- 110 & 179 of CAA Sanctions for Failure to Implement
- Potential implementation of a Federal Program (110 CAA)
- Lawsuit always a possibility

### Questions???